



Nem Kutusu

Installation Guide

Electromagnetic drying in reinforced concrete structural elements – installation, commissioning and monitoring.

NO DEMOLITION

MAINTENANCE FREE

30-YEAR WARRANTY



BEFORE YOU START

Box contents

- Nem Kutusu 130 unit
- Power supply unit
- 2 wall plugs and screws
- Installation and operating guide

Equipment required

- Hammer drill and plug bit
- Screwdriver, tape measure, spirit level
- Moisture meter (for the reference measurement)

Device specification

Model	Nem Kutusu 130
Effective radius	17 m
Coverage area	approx. 907 m ²
Supply	220 V AC / 50 Hz
Power consumption	1.2 W
Dimensions	258 × 212 × 41 mm
Net weight	1.2 kg
Noise level	0 dB (silent)
Drying time	6 – 12 months

IT IS NOT A DEHUMIDIFIER

The Nem Kutusu does not collect moisture from the air and must not be confused with reservoir-type dehumidifiers. Its target is the capillary moisture within the wall cross-section — it dries the building fabric, not the room air. For that reason the result is not immediate but appears over months.



IS THE DEVICE THE RIGHT CHOICE?

SUBSTRATE / WALL TYPE	STATUS	NOTES
Reinforced concrete walls, columns, foundations	• Suitable	No capillary network; injection cannot be applied
Listed building, untouchable surface	• Suitable	Buildings where boreholes are not permitted
Large area, many walls	• Suitable	Whole cross-section covered from one unit
Brick, pumice or aerated concrete masonry	• Conditional	DampStop injection gives faster results; may be combined
Active leak, plumbing failure	• Not suitable	The source must be eliminated first
Surface damp caused by condensation	• Not suitable	A ventilation and thermal insulation issue



INSTALLATION STEPS

1

Plan the coverage area

The device is effective within a radius of 17 m from its centre — approximately 907 m² of building footprint. Select a position in the central area of the building so that the whole structure lies within that radius.

- In multi-storey buildings the governing figure is the building footprint, not the number of floors. Buildings exceeding 907 m² require more than one unit.

2

Determine the mounting point

The device must be mounted on a load-bearing wall; a partition wall cannot transfer the field into the structure. Mounting height must be between 25 cm and 1 m above floor level.

- Keep a distance of at least 1.50 m from any electronic device.

3 Fix the device

Fix the device directly to the wall using the two plugs and screws supplied. Check with a spirit level that it sits straight. Do not leave insulation material or an air gap behind it – the housing must be in contact with the wall.

4 Take the reference measurement

Before commissioning the device, take moisture readings at the points you have defined and record them. This measurement is the only objective way of demonstrating progress.

Mark the measuring points photographically; subsequent readings must be taken at the same points.

5 Connect to the mains

Plug the power supply unit into the device and into the socket. Confirm that the LED indicator lights up. From this moment the device runs continuously.

The device must remain permanently connected – an interruption stops the drying process.

6 Open up the base of the wall

To accelerate drying, strip the damaged plaster and paint at the base of the wall to approximately 10 cm above the affected area. An open surface allows the wall to release its moisture by evaporation.

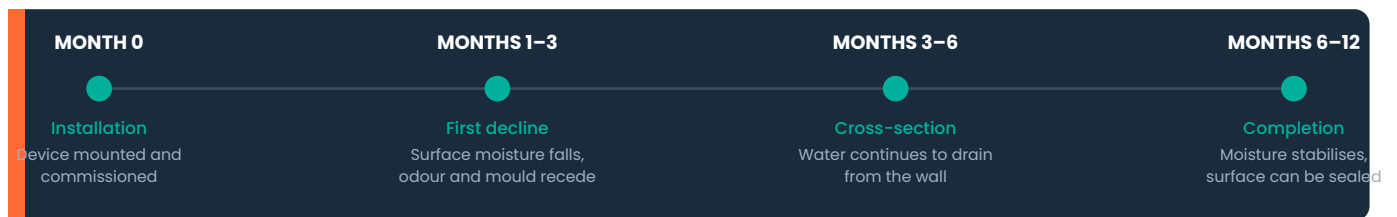


7 Establish ventilation

Maintain continuous air circulation in the room; if the vapour leaving the wall remains in the space it condenses and returns. Leave a gap of at least 1.5 cm under doors in normal rooms and 2 cm in wet rooms.

Do not re-render or paint the wall until drying is complete.

⌚ DRYING PROCESS AND EXPECTATIONS



Drying time varies with wall thickness, material, salt load and ventilation conditions. The device does not produce an immediate result. It is normal for the damp mark to remain visible during the first months; what matters is the downward trend in the monthly readings.



MONITORING AND RECORDS

WHEN	ACTION	EXPECTED
Before commissioning	Reference moisture reading, photographic record	Baseline values
Weekly	Check that the LED is lit	Continuously lit
Month 3	Repeat readings at the same points	Start of a downward trend
Month 6	Readings and visual assessment	Marked decline, odour gone
Month 12	Readings and final assessment	Moisture stabilised, surface can be sealed

THE RESULT WARRANTY DEPENDS ON THESE RECORDS

A 30-year manufacturer warranty applies to the device and a 1-year result warranty to the application. The result warranty is conditional upon compliance with the installation rules, the device being kept in continuous operation and the monitoring readings being recorded.



COMMON MISTAKES

- **Mounting the device next to electronic equipment**
A distance of at least 1.50 m must be maintained; closer mounting disturbs the distribution of the field.
- **Mounting on a non-loadbearing partition**
The field must radiate from the load-bearing cross-section of the structure.
- **Unplugging the device overnight or during holidays**
When the field is interrupted drying stops and the process starts again.
- **Changing the mounting position afterwards**
The coverage area is re-established and the drying curve is reset.
- **Rendering and painting before drying is complete**
The surface is sealed, evaporation ceases and moisture remains in the cross-section.
- **Failing to ventilate**
The vapour leaving the wall remains in the room, condenses and returns.
- **Starting without a reference measurement**
Progress cannot be demonstrated objectively and warranty assessment becomes disputable.



FREQUENTLY ASKED QUESTIONS

- S Will it affect my electricity bill?**
The device draws 1.2 W — about one tenth of an LED lamp. Annual consumption is around 11 kWh.
- S Will it affect Wi-Fi or household appliances?**
Electromagnetic compatibility has been tested to the EN 61000 series. A minimum distance of 1.50 m from electronic devices is nevertheless observed.
- S Should it be used together with injection?**
In masonry walls DampStop injection gives faster results. In reinforced concrete structural elements only the Nem Kutusu works; in mixed structures both are used.
- S Is the field it emits harmful to health?**
The device has been measured to TS EN 62233 and complies with the ICNIRP and 1999/519/EC general public exposure limit values.
- S Is it a concern for pacemaker users?**
The device complies with general public exposure limits. Persons with implanted medical devices should nevertheless consult their physician.
- S What if the LED goes out?**
Check the supply and the socket. If the fault persists, contact your supplier — the device must not be opened.

Support for your installation plan

Share the building footprint and floor plan and we will determine the mounting point and the number of units required.

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